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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. WEN-0021 08/28/2003 Motohiro Sugiura 10/649,699 **EXAMINER** 23353 7590 07/02/2004 JOHNSON III, HENRY M RADER FISHMAN & GRAUER PLLC LION BUILDING **ART UNIT** PAPER NUMBER 1233 20TH STREET N.W., SUITE 501 WASHINGTON, DC 20036 3739

DATE MAILED: 07/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	on No.	Applicant(s)		
		10/649,69		SUGIURA, MOTOHIRO		
		Examiner		Art Unit		
			ohnson, III	3739		
Period fo	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the c	orrespondence ad	ldress	
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT SIX (6) MONTHS from the mailing date of this communicati period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no evolution. s, a reply within the state period will apply and with state the apply at the apply	ent, however, may a reply be tim utory minimum of thirty (30) days Il expire SIX (6) MONTHS from ication to become ABANDONE!	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed on 8/28/2003.					
2a) <u></u>						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					e merits is	
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) 🖂	Claim(s) <u>1-12</u> is/are pending in the application.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-12</u> is/are rejected 7) ☐ Claim(s) is/are objected to.					
6)⊠						
7)						
8) 🗌	Claim(s) are subject to restriction	and/or election r	equirement.			
Applicat	ion Papers					
9)⊠ The specification is objected to by the Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)	The oath or declaration is objected to by t	he Examiner. No	te the attached Office	Action or form P	ΓO-152.	
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority docu			on No		
	3. Copies of the certified copies of the				Stage	
	application from the International E	Bureau (PCT Rul	e 17.2(a)).			
* 5	See the attached detailed Office action for	a list of the certi	fied copies not receive	ed.		
Attachmen	, ,		4) Intended Comment	(DTO 442)		
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94	48)	4) Interview Summary Paper No(s)/Mail Da	ite		
3) 🛛 Infori	mation Disclosure Statement(s) (PTO-1449 or PTO/5 r No(s)/Mail Date <u>082803</u> .		5) Notice of Informal P 6) Other:	atent Application (PT0	O-152)	

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities:

On page 25, in the last line, the wording is awkward. The examiner suggests using "
...difficult as is the case during the laser radiation as well".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 12 recites the limitation "the reference position setting unit" in line 2. There is insufficient antecedent basis for this limitation in the claim. The examiner believes this was intended to be dependent on claim 11.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-6, 11 and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,702,806 to Gray et al. Gray et al. teach an orientation system for corrective eye surgery using a first image taken in a first patient position and a second image taken with the patient in a second position wherein a feature is marked on the eye and used as an alignment point (abstract) for accommodating eye movement such as that known to occur as a patient is

moved from an upright measuring position to the prone surgery position (Col. 1, lines 40-41). A pen is used to make two alignment marks on the eye. The eye is imaged with the patient in another position, and the image displayed. A computer is used to provide alignment with the marks on the eye (mark detection) and a reference reticle (col. 8, lines 5-15). Another software program calculates an oriental change (torsion detection) to be applied to a laser beam (Col. 8, lines 30-37).

Regarding claim 4, Gray et al. disclose the marks may be natural marks such as blood vessels (Col. 4, line 34) and the first image created using these natural marks. The surgeon selects one or more features in the eye, and these are then used for correlating between filtered images for the second (surgical) position of the eye with that of the first (measurement) position (Col. 5, lines 8-12), (using first image as the reference).

Regarding claim 5, a graphical user interface is provided with a movable reticle for selecting and mapping between the images (Col. 5, lines 17-25).

Regarding claim 6, the display is inherently capable of outputting the image comparisons and calculation results.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,702,806 to Gray et al as applied to claim 1 above, and further in view of U.S. Patent 6,209,307 to Oltean et al. Gray et al. is discussed above and teaches reorienting the laser coordinates to accommodate the rotation and translation that takes place when moving the patient from a

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measurement position to the surgical position, but does not specifically disclose means for movement of the surgical beam. Oltean et al. disclose an eye tracking device for laser eye surgery wherein the eye tracking signals are used via an actuator control (Fig. 18, # 605) to control the rotation of a variable aperture (Fig. 18, # 557) and both "X" and "Y" movement via deflecting mirrors (Fig. 18, #s 582 and 584). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the means for rotating and translating the laser beam taught by Oltean et al. in the invention of Gray et al. as the signals for driving such means are provided by the Gray et al. device.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,702,806 to Gray et al as applied to claim 1 above, and further in view of U.S. Patent 5,752,950 to Frey et al. Gray et al. are discussed above, but do not teach inhibiting the laser radiation based on improper alignment. Frey et al. disclose a system for automatically inhibiting a laser based on detection of eye movement (alignment) beyond a threshold level (abstract). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the means for inhibiting a treatment laser due to improper positioning as taught by Frey et al. in the invention of Gray et al. to avoid an improper surgical ablation.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry M Johnson, III whose telephone number is (703) 305-0910. The examiner can normally be reached on Monday through Friday from 6:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C Dvorak can be reached on (703) 308-0994. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry M. Johnson, III

Patent Examiner Art Unit 3739